

WHAT IS CLAIMED IS:

1. A liquid crystal display, comprising:
 - a first substrate;
 - a second substrate facing the first substrate;
 - 5 a liquid crystal layer sandwiched between the first and the second substrates, the liquid crystal layer having a polymer barrier at each pixel region;
 - a first electrode formed at said first substrate;
 - a second electrode formed at said second substrate; and
 - wherein said first substrate and said second substrate apply an electric field to said liquid crystal layer.
2. The liquid crystal display of claim 1, wherein said first electrode has an opening pattern at each pixel region and, the polymer barrier is positioned corresponding to the opening pattern.
3. The liquid crystal display of claim 2, wherein the second substrate is provided with a color filter at each pixel region, the color filter having a groove corresponding to the opening pattern of said first electrode.
4. The liquid crystal display of claim 2, wherein a protrusion is formed on the opening pattern.
5. The liquid crystal display of claim 2, wherein a protrusion or a hollow is
20 formed under the opening pattern.
6. The liquid crystal display of claim 2, further comprising a first vertical

alignment layer formed on the first electrode, and a second vertical alignment layer formed on the second substrate.

7. The liquid crystal display of claim 1, wherein the liquid crystal layer bears a negative dielectric anisotropy.

5 8. A method for fabricating a liquid crystal display, comprising the steps of:
arranging a first substrate and a second substrate such that the first substrate and the second substrate face each other;
injecting liquid crystal between the first substrate and the second substrate to form a liquid crystal layer; and
forming a polymer barrier at the liquid crystal layer.

9. The method of claim 8, wherein the liquid crystal layer contains monomers having a property of transitting phases when light is illuminated.

10. The method of claim 8, further comprising the steps of:
forming a first electrode on the first substrate; and
forming a second electrode on the second substrate;
wherein at least one of the first electrode and the second electrode has an opening pattern.

11. The method of claim 10, further comprising the step of forming color filters either at the first substrate or at the second substrate, each color filter having a groove corresponding to the opening pattern.

12. The method of claim 11, wherein the UV light is illuminated to the

monomers through the groove at the step of forming the barrier of polymer.

13. The method of claim 10, wherein a protrusion is formed on the opening pattern.

14. The method of claim 10, wherein a protrusion or a hollow is formed under the opening pattern.

15. The method of claim 8, wherein the liquid crystal layer bears a negative dielectric anisotropy.

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